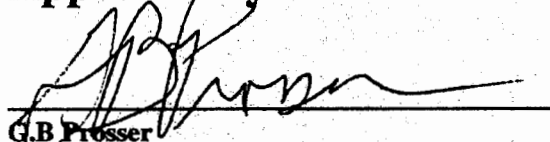


4 June 2004

**STATEMENT
OF
WORK
(SOW)
FOR THE
RELIABILITY, AVAILABILITY,
MAINTAINABILITY/REBUILD TO
STANDARDS
(RAM/RS)
PHASE II
OF THE
ASSAULT AMPHIBIOUS VEHICLE
(AAV7A1) *Family of Vehicles (FOV)*
FOR
MARINE CORPS LOGISTICS BASES**

Approved By:



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Program Manager, Assault Amphibious Vehicle Systems (PM AAVS)

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STATEMENT OF WORK (SOW)
For
ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) FOV
RAM/RS Phase II

1. SCOPE

This RAM/RS program replaces 333 AAV7A1 Family of Vehicles (FOV) including: 294 "P" variants, 27 "C" variants, and 12 "R" variants, on a one-for-one basis over a three-year period. Phase II of the RAM/RS Program includes Marine Corps Logistics Bases' (MCLC) receipt, acceptance, disassembly, preparation for contractor hull modification, storage and rebuild of component suites, and final assembly of the RAM/RS vehicles. United Defense, Limited Partnership (UDLP) has been chosen to modify the vehicle hulls. AAVC7A1s and AAVR7A1s will be introduced into the RAM/RS production line during the first year of the program. During the first year of production the C7s and R7s have priority over the P7s. This SOW and the publications listed in paragraph 2, establish the work effort that shall be performed by MCLC for the RAM/RS Program. This document contains the Program Manager's requirements for disassembly, inspection, repair, component rebuild, final assembly, and preparation for shipment.

1.1. Background

The RAM/RS Program is an Acquisition Category III program, with the Milestone Decision Authority resident with Commander, Marine Corps Systems Command. MCLC has been selected as the Rebuild and Production Activity. The Maintenance Center at Albany, Georgia has been selected as the Rebuild and Production Facility. The RAM/RS Program has completed the Proof of Principle (POP) production phase at both MCLC Albany and Barstow. The four vehicles produced during POP went through Developmental Testing and Operational Testing (DT/OT). The results of that effort played a major role in achieving a favorable MS III decision on the RAM/RS Program. This Statement of Work (SOW) continues the RAM/RS production effort. It provides for delivery of products essential to successful completion of the RAM/RS production effort. It defines the MCLC products, work effort, and deliverables associated with achieving a favorable MS III decision to proceed with RAM/RS from initial to full rate production. During this effort, all cost accounting and inspection issues will be further evaluated for adequacy in moving forward to full production. The program schedule was developed in coordination with MCLC to meet the target completion date of 31 December 2006. The successful execution of this schedule is based on appropriate funding level, funding timeliness, availability of vehicles, timely delivery of Government Furnished Material (GFM), success in preparing hulls for shipment to UDLP, receipt of properly modified hulls back from UDLP, and successful component rebuild and vehicle assembly efforts.

1.1.1. Assault Amphibious Vehicle, Personnel (AAVP7A1)

The AAVP7A1 is a full tracked, armored, assault amphibious vehicle. It carries landing forces during water operations from ship to shore, through rough water and surf, to inland objectives. The tracks move the vehicle on land. Two water-jet propulsion units, mounted in the aft end, drive the vehicle in water. The tracks may also be used to drive

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the vehicle in water. The AAVP7A1 is equipped with the "Upgunned Weapons Station" (UGWS) which mounts both an M2, .50 caliber HB machine gun and a MK 19, 40mm grenade launcher. The Rebuild Standard (RS) 3.4C provides detailed instructions for the AAVP7A1 rebuild.

1.1.2. Assault Amphibious Vehicle, Command (AAVC7A1)

The AAVC7A1 vehicle is not equipped with the UGWS, but in all other respects is the same as the AAVP7A1 with the exception of modification to the cargo compartment to accommodate the additional communications equipment. The AAVC7A1 is employed as a mobile command post for communications with subordinate, adjacent, and senior infantry units, as well as supporting arms and logistics support units. The system is equipped for voice communications with six channels of very high frequency, frequency modulated (VHF-FM) radio, one channel of ultra high frequency (UHF) radio and one channel of high frequency (HF) radio. Voice security equipment affords cipher capability on all radio communication channels. Telephone facilities provide for communication with thirty-six field circuits and three vehicle circuits. Three independent intercom systems provide intercommunication for vehicle crew, staff, and communication personnel. Chapter 17 of RS 3.4C provides detailed instructions for the AAVC7A1 rebuild.

1.1.3. Assault Amphibious Vehicle, Recovery (AAVR7A1)

Many characteristics of the AAVR7A1 are similar to the AAVP7A1. The AAVR7A1 does not have the UGWS installed. Its principal equipment includes: a hydraulic telescoping boom-type crane; a recovery winch; an air compressor, an AC generator, a cutter/welder, and other portable maintenance equipment. Chapter 16 of RS 3.4C provides detailed instructions for the AAVR7A1 rebuild.

2. APPLICABLE DOCUMENTS

The following documents form a part of this SOW to the extent specified. Unless otherwise designated, the issue dates of these documents are those listed in the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, which is in effect on the date of this SOW. The application of specifications, standards, and related documents shall be limited to the documents specifically cited herein as requirements, and to the specified portions referenced herein (first tier references). All other referenced documents (second tier and below) shall be for guidance only, unless specifically cited otherwise. In the event of conflict between the documents referenced and the contents of this SOW, requests for conflict resolution shall be brought to the attention of Program Manager, Assault Amphibious Vehicles (PM AAVS). Resolution of conflicts between reference documents and this SOW shall be complete prior to Phase II initiation by the PM AAVS. PM AAVS will resolve conflicts found after Phase II initiation within five (5) working days of notification.

2.1. Military Standards

MIL-STD-2073-1D	DOD Standard Practice for Military Packaging
MIL-STD-129	DOD Standard Practice for Military Marking

2.2. Technical Manuals (TMs)

All applicable TMs are referenced in RS 3.4C

2.3. Other Applicable Documents

RS 3.4C, Revision in effect on the date of this SOW
PPA Technical Instruction of February 2002

SI-09674A-15/1	Warranty Procedures, Assault Amphibious Vehicle Reliability, Availability, and Maintainability/Rebuild to Standard Series Vehicle (RAM/RS), 31 August 1999
SD-14	Toxic Chemicals, Hazardous Substance and Ozone Depleting Chemicals
MIL-HDBK-61	Configuration Management Guidance

2.4. Drawings

2.4.1. Packaging Instruction Drawing

Drawing 5428747	AAVP7A1
Drawing 5435309	LVTC7A1
Drawing 5433292	LVTR7A1

(Copies of official Statements of Work required in connection with this specific SOW shall be obtained from: Commanding General (AFS-CTV), Marine Corps Logistics Command, 814 Radford Boulevard, Albany, Georgia 31704-1128, Commercial (912) 439-6670/6427 or DSN 567-6670/6427).

(Copies of publications required in connection with these specific SOW requirements shall be obtained from: Program Manager, Assault Amphibious Vehicle Systems, 3104 Potomac Avenue, Quantico, Virginia 22134-5010, Commercial (703) 784-4301 or DSN 278-4301).

(Copies of Drawings required by MARCORLOGCOM Maintenance Facility shall be obtained from: Commanding General, Attn: (566-1), Marine Corps Logistics Command, 814 Radford Boulevard, Albany, Georgia 31704-1128, Commercial (229) 639-6476 or DSN 567-6476). Copies of drawings, Engineering Change Proposals (ECPs) and Request for Deviations and Waivers (RFD/Ws) requested will be provided by the most economical means depending on quantity ordered, e.g., CD ROM, or Hard Copy.)

2.5. Industry Standards

ANSI/EIA-625	Requirements for Handling Electrostatic Sensitive Discharge (ESD) Devices
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ANSI/EIA-649 National Consensus Standard for Configuration Management

(Copy of publication shall be obtained from: American National Standards Institute (ANSI), 11 West 42nd Street, New York, NY 10036; Web Address: <http://web.ansi.org>)

2.6. Technical Data Electronic Transfer Instruction

The Technical Data Electronic Transfer Instruction requirements are provided in Appendix A.

3. REQUIREMENTS

3.1. Project Management

3.1.1. Reports and Documentation

Reports and Documentation formats are provided in Appendix B.

3.1.1.1. Financial Status and Performance Management Report

The Financial Status Report and the Performance Management Report are required to provide the Program Manager with an accurate accounting of the cost, schedule and technical performance of the approved work effort and to respond to other financial authorities on the status of fiscal documents in a timely manner. These reports are separate but related. The intent of this statement of work is to provide those reports necessary to achieve these requirements with enough detailed backup to ensure the accuracy of the data reported. The performance management reports will follow the guidelines of an Earned Value Management System (EVMS) as determined by the AAV EVMS IPT. The financial report follows the format agreed upon between the AAV management offices at MARCORLOGCOM and MARCORSYSCOM.

3.1.1.1.1. Performance Management Reports

The performer shall establish and maintain procedures for cost, schedule and technical performance control that provide internal managers and PM AAVS with accurate data to manage execution of the effort. The procedures shall, as a minimum, provide for the time-phased budgeted cost of work scheduled (including work authorization, budgeting and scheduling), the budgeted cost of work performed (value for completed tasks), the actual cost of work performed, the budget at completion, the estimate at completion, subcontractor performance measurement/reporting as applicable, and identification and analysis of significant cost and schedule variances. Overhead costs, including G&A, will be separated from direct costs for reporting purposes. The performer shall provide cost and schedule performance information during scheduled meetings/reviews in addition to the monthly Cost/Schedule Status Report (C/SSR) provided under letter of transmittal. An Integrated Baseline Review (IBR) will be conducted at Maintenance Center Albany within six (6) months after program initiation in order to gain a common understanding of the performance measurement system used, ensure complete coverage, determine logical task scheduling, verify adequate resources and identify inherent risks.

3.1.1.1.1. Performance Measurement Baseline

A Performance Measurement Baseline (PMB) shall be established and submitted to PM AAVS at a formal Integrated Baseline Review (IBR). This PMB shall be based upon cost estimation work sheets provided as supporting information to the PMB. The PMB shall reflect the work actually authorized by the full program funding and this statement of work and not the estimated cost of a 100% Rebuild to Standard effort. In addition, the PMB shall include all program costs to include overhead tasks, appropriate related matrix support and supporting contracts or subcontracts.

3.1.1.1.2. Contract Work Breakdown Structure (CWBS)

CWBS is provided in Appendix D. The anticipated level of reporting will be to the third level with certain limited exceptions, as identified by the Rebuild IPT.

3.1.1.1.3. Cost/Schedule Status Report (C/SSR)

An AAV EVMS IPT defined and approved tailored C/SSR shall summarize contract cost and schedule performance data in sufficient detail that management can make informed decisions based upon variances in budgeted and actual work performed, and budget at completion versus estimated at completion. The level of detail for reporting purposes is to the third level of the CWBS. MARCORLOGCOM shall agree to permit PM AAVS or his agent to inspect all pertinent records and data.

3.1.1.1.4. Contract Funds Status Report (CFSR)

The CFSR shall provide specific fiscal information to include, as a minimum, the receipt, commitment, obligation and expenditure of all funds received throughout the fiscal year with copies of appropriate supporting documentation. This will track all AAV RAM/RS related funds to include labor, material, facilities and initial spares, as provided. The format for reporting such information will be in accordance with DI-MGMT 81468 and as agreed to between the AAV management offices of MARCORSYSCOM and MARCORLOGCOM. The financial status report shall be provided monthly under letter of transmittal.

3.1.1.1.5. Tracking

It is the intention of PM AAVS to track the cost of individual vehicles by serial number throughout the production program. This will be the actual cost of the specific vehicle to include the cost of those items provided as GFE under this effort. That is, PM AAVS will provide cost by item serial number of provided material such as engines, modified hulls and suspension kits and these specific costs are to be included with the appropriate vehicle serial number reported. The report provided by MARCORLOGCOM shall report by vehicle serial number these costs, in addition to the rebuild labor and material costs, separately identified, down to the reporting level identified in the Contract Work Breakdown Structure (see paragraph 3.1.1.1.3). These technical reports shall be provided on a monthly basis under letter of transmittal commencing with first delivery of an AAV RAM/RS vehicle.

3.1.1.2. New ECP Cost Report

Monthly, MCLC will provide the ECP Cost Report, per Appendix B, to PM AAVS. It

will capture the cost of selected new ECPs (noted by an asterisk in Appendix E) for the RAM/RS Program.

3.1.1.3. Production Progress Report

MCLC shall provide a monthly Production Progress Report to PM AAVS. The report shall address, but is not limited to the status of the disassembly, component rebuild, vehicle assembly, any Government Furnished Information, Materiel, or Equipment (GFI, GFM, and GFE) discrepancies. The report shall also document the supply status of materiel requisitioned to replace all items previously identified as missing and Materiel Condition Code H. This information shall be discussed at required In-Process Reviews. The MCLC format is acceptable. Prepare the Production Progress Report in accordance with the deliverables listed in Appendix B.

3.1.1.4. Warranty/Guarantee Procedures

MCLC Warranty/Guarantee Supply Instruction, SI-09674A-15/1, describes warranty procedures for GFM items and guarantee procedures for MC workmanship.

3.2. Meetings, Reviews, and Conferences

MCLC shall, as appropriate, plan, host, attend, coordinate, support, and conduct all meetings, formal reviews, and conferences (hereinafter called "reviews"). The reviews shall be conducted quarterly either employing Video Teleconferencing (VTC) or on-site at PM AAVS, UDLP, and/or MCLC facilities. Reviews requiring demonstration and/or examination of equipment shall be conducted at the MCLC Rebuild or UDLP facilities, as appropriate. PM AAVS will fund direct labor costs associated with temporary additional duties on an as required basis. MCLC shall prepare agendas and conference presentation materials and provide minutes and reports, within ten working days, following each review. PM AAVS reserves the right to cancel any review or to require any review to be scheduled at critical points during the period of performance. At least two weeks notice will be provided for reviews that have not been previously scheduled. Action item documentation, assignment of responsibility for completion, and due dates shall be determined prior to adjournment of all reviews. A summary of all action items, responsible parties, and estimated completion date shall be included with the minutes. Appendix B provides guidance for preparation of these deliverables.

3.2.1. In-Process Review (IPR)

The first In-Process Review (IPR) will be held approximately 30 days after start of Phase II, at a date and location mutually agreed upon. Subsequent IPRs will be held as required. PM AAVS reserves the right to cancel any review or to require any review to be scheduled during the period of performance. As a minimum, MCLC shall:

- a. Present the Cost/Schedule Status Report (C/SSR),
- b. Discuss the production progress, including any changes made to the production process,
- c. Brief program status to include problem identification and resolutions,
- d. Present status of systems engineering efforts and integrated logistics support,
- e. Present status of deliverables,

- f. Prepare presentation materials providing an overview of all agenda items.

3.2.2. IPR Role and Responsibility

The PM AAVS shall chair and be the approving authority for each IPR. The MCLC Maintenance Directorate shall host the scheduled IPR to present the subjects noted in paragraph 3.2.1. Documents prepared for the IPR shall be prepared in accordance with the formats described in the appropriate deliverables as listed in Appendix B.

3.3. Engineering Support

MCLC shall provide appropriate engineering support to PM AAVS. Engineering support requirements beyond the scope of this SOW shall be approved and funded by PM AAVS.

3.4. Management Support

MCLC shall provide a single point of contact for Project Management for the AAV RAM/RS effort. The single point of contact shall be responsible for ensuring compliance with the requirements of this SOW by all elements of MCLC. Additionally, this single point of contact shall coordinate the efforts of the Maintenance Facility to ensure like products are delivered to UDLP and to the Fleet Marine Force (FMF).

3.5. VEHICLE DISASSEMBLY SECTION

3.5.1. Receipt

MCLC shall receive incoming Assault Amphibious Vehicles per standard MCLC procedures in accordance with the production schedule provided at Appendix C. MCLC and MARCORSYSCOM will work in concert to ensure timely delivery of source vehicles for the RAM/RS production.

3.5.2. Induction

A pre-induction inspection analysis shall be performed for each AAV using the Rebuild Facility's diagnosis, inspection and testing techniques in accordance with the RAM/RS Pre-induction Checklist (Appendix B of RS 3.4C) to determine the extent of work and parts required.

3.5.2.1. Configuration Verification

Appendix F will be used to verify the RAM/RS Configuration on each AAV received by the Rebuild Facility.

3.5.2.2. Induction Suitability

MCLC will perform the pre-induction inspection analysis and verification of configuration. A PM representative will attend or provide a pre-induction LTI. Disposition of an out of scope vehicle will be made on a case-by-case basis. PM AAVS will provide disposition guidance as required. As a result of this process, PM AAVS will provide a final determination of suitability for induction into the RAM/RS Program.

3.5.3. Disassembly Guidance

Disassembly is defined as the removal, preparation for induction, and storage as required

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in support of the production schedule. MCLC shall provide stripped down hulls for modification to UDLP which have all bolted on items removed with the exception of forward towing eyes (2), shackles (4), and mooring cleats (4). The vehicle identification data plate shall be left on the vehicle until returned from UDLP.

3.5.3.1. AAVC7A1 Production Strategy

AAVC7A1 "seed vehicles" are those C7 vehicles that will be inserted early into the RAM/RS production line and not obtained from FMF assets. Using seed vehicles not only ensures production is completed on schedule, but also minimizes the impact to the FMF units. The first six C7s through the production line will be returned to the fleet with refurbished furniture. The first three C7s will receive furniture from the supply in the Maintenance Center warehouse. The last three of the first six will use the furniture that they arrived with or use furniture from another C7 from the Albany lot, after furniture refurbishment. The AAVC7A1s will have the mounting hardware for the C7 unique furniture over-packed in the back of the vehicle.

3.5.3.1.1. AAVC7A1 Vehicle Requirements

Unique item removal instructions are also provided below. The MCLC shall transport the vehicles to the appropriate Maintenance Centers to meet all established schedules. All AAVC7A1's inducted from the FMF units will have the unique items removed and stored prior to shipment of the vehicles.

AAVC7A1 UNIQUE PARTS AND UNIQUE PARTS REMOVAL INSTRUCTIONS

<u>Component</u>	<u>Removed prior to induction</u>
Electrical System	
Command communication system power cables	Yes
Over-voltage transient Protection System	Yes
Command Communication System	
Communication Equipment Module	
Module (from vehicle)	Yes
Cables (from module)	Yes
Components (from Module)	Yes
Communication Seats	
Seat Module	Yes
Seat Assembly (5X)	Yes
Staff Equipment	
Staff Equipment Module	
Module (from vehicle)	Yes
Light (Four station light)	Yes
Light Switch (Four station light switch)	Yes
Desk	Yes
Staff Seats	
Seat Module	Yes
Seat Assembly	Yes
Water Can Support	Yes
Aft Rifle Rack Support	Yes
Blackout lights (attached to removed rack)	Yes
Five Station Light (attached to removed rack)	Yes

Interim Set AN/MIQ-1(v) 2 (attached to removed rack)	Yes
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3.5.3.1.2. AAVC7A1 Mandatory Replacement Parts

AAVC7A1 unique items will be removed and stored at the units prior to shipment of the vehicles. Once the unit receives the AAVC7A1 RAM/RS vehicles from the maintenance center production line, they will install the stored unique items into the newly received vehicles. In support of this effort, MCLC shall purchase, and over-pack with all AAVC7A1 RAM/RS, those AAVC7A1 Mandatory Replacement Parts necessary for installation of the unique parts. The AAVC7A1 Mandatory Replacement Parts are listed in appendix I.

3.5.3.2. AAVR7A1 Production Strategy

AAVR7A1 "seed vehicles" are those R7 vehicles that will be inserted early into the RAM/RS production line and not obtained from FMF assets. Using the seed vehicles not only ensures the production is completed on schedule, but also minimizes the impact to the FMF units. The MCLC shall transport the seed vehicles to the appropriate Maintenance Centers to meet all established schedules. The recovery vehicle production accomplishes two major tasks. The first task incorporates the RAM/RS power plant and suspension. The second task replaces or rebuilds the following items: air compressor, crane, winch, welder, power source assembly, AC electrical system, and the hydraulic system. The R7 will have the welder over-packed in the back of the vehicle.

3.5.3.2.1. AAVR7A1 Vehicle Requirements

The AAVR7A1 vehicles shall be disassembled, rebuilt and reassembled in accordance with the procedures provided in the Rebuild Standard. Instructions for the AAVR7 unique components are provided in the following table. The items listed on the following table will be provided as Government Furnished Material to the depots. The removed items will be retained for future use. When available each ECP indicated below will be provided to the Maintenance Directorate for a cost estimate.

AAVR7A1 Unique Component Disposition

Component	Instructions
AC Generator	Maintenance Center remove, replace with new ac generator, and functionally test on the vehicle in accordance with ECP 5469. Installation will be identical to the current generator.
Air Compressor	Maintenance Center remove, replace with new, air compressor and functionally test on the vehicle in accordance with ECP 5465. New air tanks will be provided for Maintenance Center installation. Installation will be identical to the current compressor.
Crane	Maintenance Center remove old crane as an assembly (Do not disassemble), install new crane, and only functionally test in accordance with appendix O of TM 07267A25&P. New crane will be load tested by the supplying vendor prior to shipment to the Maintenance Center.
Hydraulic Pump	Maintenance Center remove, replace with new hydraulic pump (Gang pump), and functionally test on the vehicle. The Maintenance Center will rework the remainder of the hydraulic system, as necessary.
Magnetic Clutches	Maintenance Center remove, replace with a new magnetic clutch assembly, and functionally test on the vehicle. Maintenance Center will implement ECP 5454 that

Component	Instructions
	provides over-speed protection to the magnetic clutch assembly.
Welder	Owning unit remove and retain. Maintenance Center install new welder in accordance with ECP 5460 and ECP 5460r1.
Winch	Maintenance Center remove old winch and hydraulics components without disassembly, replace with new winch and hydraulic components, and functionally test on the vehicle.

3.5.3.2.2. AAVR7A1 Mandatory Replacement Parts

The AAVR7A1 unique mandatory replacement parts are identified in the appropriate chapters and sections of the Rebuild Standard 3.4.

3.5.3.3. AAVP7A1 Production Strategy

AAVP7A1 "seed vehicles" are those P7 vehicles that will be inserted early into the RAM/RS production line and not obtained from FMF assets. Using the seed vehicles not only ensures the production is completed on schedule, but also minimizes the impact to the FMF units. The MCLC shall transport the seed vehicles to the appropriate Maintenance Centers to meet all established schedules. The AAVP7A1s will have the weapons over-packed in the rear of the vehicle.

3.5.4. Disposition of Components

The disposition of all components will be in accordance with Appendix G. The minimum requirements for disposition during disassembly are as follows:

3.5.4.1. Inspect for Obvious Materiel Code H (Visual Inspection)

Visually check Secondary Repairables for obvious Materiel Code H conditions. Process all Materiel Code H Secondary Repairables in accordance with standard procedures.

3.5.4.2. Serialized Storage of Custom Fitted Components

Ensure custom fitted components (Plenums, ramps with ramp door, C7 counter weights and cargo hatches) are identified by vehicle and stored for ease of access/identification during vehicle assembly.

3.5.4.3. Unique Component Requirements

Unique component requirements exist for those items that will be shipped to outside contractors or recovered by the Government. The following areas of guidance are provided:

3.5.4.3.1. Contractor GFM

Phase II GFM consists of the vehicle hulls, and HOWDEN fans that will be provided to commercial vendors in support of RAM/RS.

3.5.4.3.2. Disposition of Magnetic Heading System (MHS)

Send the MHS magnetic flux gate sensor (part numbers 02-0378 or 6227497-2 and NSN 6605-01-333-4002) to KVH Industries Inc., 50 Enterprise Center, Middletown, Rhode Island 02842. All other MHS components may be returned to the fleet assets if reusable or disposed through MCLC procedures if not reusable.

3.5.4.3.3. Excess Material

Excess material is defined as items not applicable to the RAM/RS Program. Those items will be disposed of, as required, through normal MCLC procedures. The Power Plant Assembly (PPA) Technical Instruction provides a list of expected excess material.

3.5.4.4. 400 HP Re-useable Parts

The Power Plant Assembly (PPA) Technical Instruction provided a list of the re-useable parts from the 400 HP Engine required during final assembly of the RAM/RS PPA.

3.5.5. Hull Preparation for Shipment to UDLP

MCLC shall remove all coating and corrosion over areas of the hull in preparation for contractor shipment of AAV7A1 hulls to the UDLP modification facility. Blasting is not required in the area of the torsion tube flanges in the road arm areas for those road arms employed for mobility throughout the rebuild facility. All serviceable NON-Skid shall not be removed, but will be brush blasted.

3.5.6. Final Configuration Inspection for Shipment to UDLP

MCLC shall conduct a final configuration inspection on all GFM hulls provided to UDLP prior to leaving the Rebuild Facility. To facilitate the inspection process, MCLC shall employ a Final Configuration Inspection Checklist or procedure to ensure GFM hulls are delivered to UDLP in accordance with paragraphs 3.5.3 and 3.5.5. MCLC shall be responsible for required preparation of the hull to meet environmental and Department of Transportation requirements for over the road transportation.

3.5.7. Shipment

MCLC shall designate an appropriate location at MCLC Albany, GA to accommodate loading and unloading of the hulls to and from the UDLP conveyance. MCLC is not expected to accommodate unusual shipment requirements. MCLC shall coordinate with any other appropriate Department of Defense (DOD) agencies that may be required to accommodate shipment of hulls. Accountability of GFM to UDLP will be in accordance with standard MCLC procedures. UDLP will be responsible for obtaining all transportation permits associated with movement of hulls to and from the MCLC to their modification facilities.

3.5.8. Materiel Handling Equipment

Material Handling Equipment support requirements for the movement of materiel in support of this SOW shall be developed by MCLC.

3.6. COMPONENT REBUILD SECTION

3.6.1. Component Rebuild

Component Rebuild is defined as the rebuild, storage, and preparation for application of components earmarked for RAM/RS Vehicle Assembly. In complying with the specified requirements of this SOW, MCLC shall perform as a minimum, but shall not be limited to the following tasks:

3.6.1.1. Receipt of Government Furnished Material (GFM)

Receipt of GFM shall be per normal MCLC procedures (to include new ECPs as required). A list of GFM components is contained in Appendix H. Additional GFM (such as XB items) shall be procured annually based upon a recommendation provided to PM AAVS by the Maintenance Directorate.

3.6.1.1.1. GFM Repair

All GFM repair requests shall be formally documented. This documentation shall include a comprehensive Product Quality Deficiency Report (PQDR), the proposed process for accomplishing the rework, and cost estimate of the rework. The PQDR is to be provided to the PM AAVS, within 48 hours of occurrence. PM AAVS is the approval authority for all GFM repair requests associated with the AAV RAM/RS program. PM AAVS delegated the GFM repair approval authority to the Defense Contract Management Agency (DCMA) representatives at the Maintenance Center Albany and Maintenance Center Barstow per the procedure described in Appendix J. In reviewing a GFM repair request, the DCMA representative may consult with Maintenance Center personnel, PM In-Plant representative, PM AAVS, and appropriate contractors. Should a DCMA representative be unavailable at the time of the GFM repair request, approval authority still remains with the Program Manager, Deputy Program Manager, Assistant Program Manager for RAM/RS and the Business/Financial Manager per the procedure described in Appendix J.

Upon discovery of a GFM non-conformance, the request for GFM repair should be processed per the procedure described in Appendix J. The data required for the approving authority should be provided by Maintenance Center via PQDR or the worksheet of provided in Appendix J.

3.6.1.2. Rebuild

RAM/RS Component Rebuild shall be in accordance with current TMs, as amplified by RS 3.4C. The RS 3.4C shall take precedence in the event of conflicting guidance. RAM/RS rebuild procedures shall be further modified by Requests for Deviation (RFD) and Engineering Change Proposals (ECP), as required.

3.6.1.2.1. Production Engineering Change Proposals

RS 3.4B Appendix A provides a list of the new Engineering Change Proposals (ECPs) that are part of the RAM/RS configuration. Upon approval of these or other new ECPs, MCLC shall provide a cost estimate for ECP application to PM AAVS. The budget to perform ECP application shall be negotiated between MCLC and PM AAVS. The MCs shall apply the ECPs upon official guidance from PM AAVS and report break-in production number. Parts delivery shall be coordinated between PM AAVS and MCLC.

3.6.1.2.2. Corrosion

Stage I and II corrosion will not be completely removed, it will be cleaned and treated in accordance with RS 3.4C. The following locations apply:

<u>Component Area</u>	<u>CWBS Line#</u>
Cooling System	1.01.03.03
Controls and Linkage	1.01.03.05
Plenum	1.01.01.03
Hatches/Ramps	1.01.01.01
Bolted on and Stowage Items	1.01.01.02
UGWS	1.01.05
Hydraulic System	1.01.04.04

3.6.1.3. PPA Technical Instructions (TI)

The PPA Technical Instruction of February 2002 shall be used to determine PPA parts disposition.

3.6.1.4. M36E3/M36E2 Periscope

The owning unit prior to shipment will remove all M36 Periscopes. If an M36 periscope is received with a vehicle, the periscope will be removed and returned to the owning unit through normal MCLC procedures. No M36 periscopes will be installed on RAM/RS vehicles during the assembly process.

3.6.1.5. Fire Suppression System

Hydrostatic testing and re-certification will be performed on fire bottles with less than six years remaining on the current certification. Fire bottles with six or more years remaining on the current certification will be charged to the appropriate levels and reused.

3.6.1.6. Drivers Display Unit (DDU)

DDU will be repaired and installed in all RAM/RS vehicles, in accordance with RS 3.4C.

3.7. VEHICLE ASSEMBLY SECTION

3.7.1. Vehicle Assembly

Vehicle Assembly is defined as the testing, inspection, assembly, and preparation for fielding of the RAM/RS vehicles, in accordance with the current configuration as described in the RS 3.4C. In complying with the specified requirements of this SOW, MCLC shall perform as a minimum, but shall not be limited to, the following tasks:

3.7.1.1. Mating of Hull with Custom Fitted Components

Ensure custom fitted Components are associated with the appropriate hull.

3.7.1.2. Transducers

Transducers will be replaced or re-used, if serviceable, as specified in the RS 3.4C.

3.7.1.3. Final Configuration Inspection

MCLC shall conduct a final configuration inspection on all RAM/RS vehicles, jointly with the PM AAVS site representative, prior to the vehicles leaving the Rebuild Facility. To facilitate the inspection process, MCLC shall employ the Final Configuration

Inspection Checklist/Procedure, Appendix: F. of RS3.4C, in accordance with DI-MISC 80508 to ensure RAM/RS vehicles are delivered to the final customer in accordance with the approved final RAM/RS configuration.

3.7.1.4. Fielding

MCLC shall field the RAM/RS vehicles to the appropriate locations in accordance with the Material Fielding Plan as published and updated by the Logistics Support and Materiel Fielding Team (LS&MFT) Integrated Product Team (IPT).

3.7.1.5. Preparation for Shipment

MCLC shall prepare the reassembled AAV for shipment and storage in accordance with applicable drawing number 5428747, 5435309, or 5433292. Any recommended engineering changes shall address the impact to Packaging, Handling, Storage, and Transportation requirements via the ECP. An AAV scheduled for immediate shipment shall be preserved Level B with drive-on/drive-off capability. An AAV scheduled for overseas destinations shall have a sign affixed which reads "NOT FOR WEATHER DECK STORAGE". Hazardous items shall be prepared in accordance with MIL-STD-2073-1D, Table J.1a. Specialized Preservation Code HM Markings shall be in accordance with MIL-STD-129.

3.8. GENERAL REQUIREMENTS SECTION

3.8.1. Electromagnetic Environmental Effects (E3) Procedures

MCLC shall establish, implement and document an Electrostatic Discharge (ESD) Control Program following the guidelines provided in ANSI/EIA-625. ESD protective measures shall be used during manufacturing, handling, inspecting, testing, marking, packaging, storing, and transporting the ESD sensitive components.

3.8.2. Quality System Provisions

MCLC shall maintain a documented Quality Management System. The system shall apply to all equipment provided and shall ensure that quality is maintained throughout all areas including fabrication, processing, assembly, inspection, test, maintenance, packaging, delivery, and shipping. The Rebuild Facility's system shall ensure personnel responsible for manufacture, inspection, control of processes, operations and equipment that require special skills are certified prior to performing these functions. Specific responsibilities and functions shall be assigned and a list of required skills and skill levels shall be maintained for all personnel performing under this SOW. The Defense Contract Management Agency (DCMA) has specific roles in regards to Quality Assurance with respect to MCLC in general and to the RAM/RS program in particular. The DCMA role is defined by separate Memorandums of Agreement (MOAs) between PM AAVS and DCMA and between MCLC and DCMA.

3.8.3. Environment, Safety and Health (ESH) Evaluation

The following ESH criteria shall be documented and be briefed, as required, at AAV7A1 RAM/RS technical reviews, meetings, and or conferences.

3.8.3.1. Safety and Health Evaluation

MCLC shall comply with the applicable federal, state and local statutes and regulations on personal safety and health hazards relative to the efforts contained in this SOW. The health hazards include conditions that create significant risks of injury, illness, disability, or reduce job performance of personnel who will perform in accordance with this SOW.

3.8.3.2. Environmental Compliance

MCLC shall comply with the applicable federal, state, and local statutes and regulations relating to protection of the environment; and public safety and health. To the maximum extent possible, environmentally preferable, recycled or recovered materials shall be used in the operation and maintenance of the AAV7A1.

3.8.3.3. Toxic, Hazardous, and Ozone-Depleting Substances

The use of toxic chemicals, hazardous materials (EPA-17), or Ozone Depleting Substances (Class I ODS) in the AAV7A1 RAM/RS effort shall be avoided. The Chemicals and Hazardous Materials to be avoided are listed in Department of Defense Publication "SD-14: Listing of Toxic Chemicals, Hazardous Substances, and Ozone-Depleting Chemicals". MCLC shall comply with federal, state and local statutes and regulations relating to procedures for disposition of hazardous waste generated from the RAM/RS effort.

3.8.4. Technical Manuals

PM AAVS provided MCLC with the Technical Manual Contract Requirements document. This document specifies TM requirements with respect to the RAM/RS program, and shall be used as a guide for subsequent TM Integrated Process Team activities.

3.8.5. Configuration Control

The PM AAVS approved Configuration Management Plan (CMP) for the Assault Amphibious Vehicle defines and describes the requirements, responsibilities, organizational relationship, and procedures necessary for the Configuration Management (CM) of the Assault Amphibious Vehicle Family of Vehicles (AAV FOV). MCLC shall implement configuration control methods and procedures that maintain the integrity and trace ability of the baseline as established at commencement of Phase II and as described in the CMP. Changes to the established baselines shall only be made after PM AAVS or designated representative approval of Engineering Change Proposals (ECP), or Requests for Deviation (RFD).

MCLC shall apply configuration control procedures to establish configuration items. MCLC shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If it is necessary to temporarily depart from the authorized configuration, MCLC shall prepare and submit a Request for Deviation. MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing this configuration control document.

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The creation and submission of RFDs shall be accomplished using the MEARS CREATE software application at, <https://mearsweb.redstone.army.mil>. Contractors shall request User-ID and password privileges from MCLC to gain access to the web site. Contractors shall direct any technical or functional questions concerning use of MEARS CREATE software to MCLC for guidance. Contractors shall notify PM AAVS when RFDs are ready for formal review.

4.0. SYSTEM TEST AND EVALUATION

Test and Evaluation for Phase II of the RAM/RS Program will be in accordance with RS 3.4C, Appendix C.

APPENDIX A: TECHNICAL DATA ELECTRONIC TRANSFER

All text documentation, graphics files, spreadsheet, and data base type deliverables shall be provided in accordance with one of the formats below unless specified otherwise:

The PM, AAVS office automation configuration is provided below.

- a. Hardware Configuration:
 - Workstations – Intel based Pentium, HP Vectra and Compaq Desk Pro
 - Portables – Intel based Pentium, Toshiba TECRA and Micron laptop computers
- b. Operating Environment:
 - Work stations – MS Windows 2000, Windows NT
 - Portables – MS Windows 2000
- c. Word Processed Files/Docs (Includes MIs & TMs):
 - MIL-PRF-28001C (SGML)
 - Microsoft Word 97
 - Microsoft Word 2000
- d. Spreadsheets:
 - Excel 97
 - Excel 2000
- e. Database:
 - Microsoft Access 97
 - Microsoft Access 2000
- f. Raster Graphics:
 - MIL-PRF-28002B (latest version)
 - ISO 10918 (JPEG) (latest version)
 - BMP, TIFF, GIFF (latest version)
- g. Engineering Drawings (Vector Graphics):
 - MIL-PRF-28000A (IGES) (latest version)
 - MIL-PRF-28003A (CGM) (latest version)
 - Drawing Exchange Format (DXF) (latest version)
- h. Computer Aided Design:
 - Auto Cad (latest version)
 - Auto Cad (for Windows, latest version)
- i. Electronic Data Transmission:
 - Internet (SMTP/FTP)

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Microsoft Exchange/Outlook 2000

- j. Schedules & Program Management Charts:
Microsoft Project (latest version)
- k. Organization Charts:
Microsoft PowerPoint 97
Microsoft PowerPoint 2000
- l. Data Compression:
PKZIP (latest version)
- m. Printers/Plotters:
HP Laser jet III
HP Laser jet 4000
HP Laser jet 4050
HP Color Laser jet 4500
- n. Storage:
CDROM
Floppy disk (3.5", zip, 5.25")
- o. Graphics:
Microsoft PowerPoint 97
Microsoft PowerPoint 2000
- p. Miscellaneous:
Lotus Notes 4.5 & 5.0
Symantec Form Flow (latest version)
- q. Internet Browser:
Netscape (latest version)
Microsoft Internet Explorer (latest version)

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SOW-06-PMM143-09674A-6/1

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APPENDIX B: DELIVERABLES

A001	DI-MISC-80508A	Performance Measurement Baseline
A002	DI-MGMT-81467	Cost/Schedule Status Report C/SSR)
A003	DI-MGMT-81468	Contract Funds Status Report (CFSR)
A004	DI-MISC-80508A	New ECP Cost Report
A005	DI-MISC-80508A	Production Progress Report
A006	DI-MISC-80508A	Warranty/Guarantee Supply Instructions
A007	DI-ADMN-81249A	Conference Agenda
A008	DI-ADMN-81250A	Conference Minutes
A009	DI-CMAN-80636C	Engineering Change Proposal (ECP)
A010	DI-CMAN-80640C	Request for Deviation
A011	DI-MISC-80508A	Final Configuration Inspection Checklist

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The public reporting burden for this collection of Information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. listed in Block E.							
A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>X</u>			
D. SYSTEM/ITEM AAV7A1 RAM/RS				E. CONTRACT/PR NO.		F. CONTRACTOR MCLC	
1. DATA ITEM NO. A001		2. TITLE OF DATA ITEM PERFORMANCE MEASUREMENT BASELINE				3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508			5. CONTRACT REFERENCE PHASE II SOW Para 3.1.1.1.1.1			6. REQUIRING OFFICE MARCORSSYSCOM PM AAVS	
7. DD FORM REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY SEE BLK 16	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE		11. AS OF DATE SEE BLK 16	13. DATE OF SUBSEQUENT SUBMISSION	a. Addressee	b. COPIES		
					Draft	Final	Repr
16. REMARKS BLK 10, 11, 12 -IBR will be conducted not later than 6 months after start of Phase II. -PMB will be submitted in graphic form within 60 days of contract start, and final form during IBR. -Risk assessment will be submitted during IBR. *All deliverables/reports shall be in a Microsoft Office Application. MCLC shall submit documentation in electronic (floppy disk) and hard copy (paper) formats. DISTRIBUTION STATEMENT A: Approved for public release. Distribution is unlimited.				MAR CORSYS COM			
				PM AAVS	1	1	1
				DCMA	1	1	1
				15. TOTAL			
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE	

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP_____ TM_____ OTHER <u>X</u>					
D. SYSTEM/ITEM AAV7A1 RAM/RS				E. CONTRACT/PR NO.		F. CONTRACTOR MCLC			
1. DATA ITEM NO. A002		2. TITLE OF DATA ITEM COST/SCHEDULE STATUS REPORT (C/SSR)				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81467				5. CONTRACT REFERENCE PHASE II SOW Para 3.1.1.1.1.3		6. REQUIRING OFFICE MARCORSYSCOM PM AAVS			
7. DD250REQ		9. DIST STATEMENT REQUIRED		10. FREQUENCY MONTHLY		12. DATE OF FIRST SUBMISSION SEE BLK 16			
				11. ASOF DATE SEE BLK 16		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16			
8. APPCODE						14. DISTRIBUTION			
16. REMARKS MCLC shall provide most recently submitted C/SSR at the IPRs and during scheduled meetings and reviews. BLK 12 60 days after close of the accounting period during which contract start is authorized. BLK 13 25 days after close of accounting period. *All deliverables shall be in a Microsoft Office Application. MCLC shall submit documents in electronic (floppy disk) and hard copy (paper) formats. DISTRIBUTION STATEMENT A: Approved for public release. Distribution is unlimited.						a. Addressee		b. COPIES	
						15. TOTAL			
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE			

PREVIOUS EDITION MAY BE USED

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP_____ TM_____ OTHER <u>X</u>					
D. SYSTEM/ITEM AAV7A1 RAM/RS				E. CONTRACT/PR NO.		F. CONTRACTOR MCLC			
1. DATA ITEM NO. A004		2. TITLE OF DATA ITEM NEW ECP COST REPORT				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508				5. CONTRACT REFERENCE PHASE II SOW Para 3.1.1.2		6. REQUIRING OFFICE MARCORSSYSCOM PM AAVS			
7. DD250REQ		9. DIST STATEMENT REQUIRED		10. FREQUENCY MONTHLY		12. DATE OF FIRST SUBMISSION 30DAC			
				11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION			
8. APP CODE				SEE BLK 16		14. DISTRIBUTION			
16. REMARKS BLK 4 MCLC format acceptable. *All deliverables/reports shall be in a Microsoft Office Application. MCLC shall submit documents in electronic (floppy disk) and hard copy (paper) formats. DISTRIBUTION STATEMENT A: Approved for public release. Distribution is unlimited.						a. Addressee	b. COPIES		
							Final		
							Draft	Reg	Repr
						MAR CORSSYS COM			
						PM AAVS	0	1	1
						DCMA	1	1	1
15. TOTAL						1	2	2	
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE			

B-6

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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)				Form Approved OMB No 0704-0188					
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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>X</u> _____					
D. SYSTEM/ITEM				E. CONTRACT/PR NO.		F. CONTRACTOR MCLC			
1. DATA ITEM NO. A006		2. TITLE OF DATA ITEM WARRANTY/GUARANTEE SUPPLY INSTRUCTION				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508			5. CONTRACT REFERENCE PHASE II SOW Para 3.1.1.4			6. REQUIRING OFFICE MARCORSYSCOM PM AAVS			
7. DD FORM 1293 REQ		9. DIST STATEMENT REQUIRED		10. FREQUENCY OT		12. DATE OF FIRST SUBMISSION 30DAC			
				11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION			
8. APP CODE						14. DISTRIBUTION			
16. REMARKS * All deliverables/reports shall be in a Microsoft Office Application. MCLC shall submit documents in electronic (floppy disk) and hard copy (paper) formats. DISTRIBUTION STATEMENT A: Approved for public release. Distribution is unlimited.				a. Addressee		b. COPIES			
						Final			
				Draft		Reg		Repr	
				MAR					
				CORSYS					
				COM					
				PM		0		1	
				AAVS		1		1	
				DCMA		1		1	
				15. TOTAL		1		2	
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE			

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>X</u>				
D. SYSTEM/ITEM AAV7A1 RAM/RS				E. CONTRACT/PR NO.		F. CONTRACTOR		
1. DATA ITEM NO. A007		2. TITLE OF DATA ITEM CONFERENCE AGENDA			3. SUBTITLE MCLC			
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-81249			5. CONTRACT REFERENCE PHASE II SOW Para 3.2			6. REQUIRING OFFICE MARCORSSYSCOM PM AAVS		
7. DD250REQ		9. DIST STATEMENT REQUIRED		10. FREQUENCY AS REQUIRED		12. DATE OF FIRST SUBMISSION SEE BLK 16		
				11. AS OF DATE SEE BLK 16		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		
8. APP CODE						14. DISTRIBUTION		
16. REMARKS BLK 4 – See paragraph 3.2.1 for IPR content. BLK 10 through 13 - Agenda due five days prior to scheduled meetings. At least two weeks notice shall be provided for reviews that have not been previously scheduled. * All deliverables/reports shall be in Microsoft Office Application. MCLC shall submit documents in electronic (floppy disk) and hard copy (paper) formats. DISTRIBUTION STATEMENT A: Approved for public release. Distribution is unlimited.				a. Addressee		b. COPIES		
						Final		
						Draft		
						Reg		
						Repr		
				MAR				
				CORSYS				
				COM				
				PM		1	1	1
				AAVS				
				DCMA		1	1	1
				15. TOTAL		2	2	2
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE		

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The public reporting burden for this collection of Information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. listed in Block E.									
A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP_____ TM_____ OTHER <u>X</u>					
D. SYSTEM/ITEM AAV7A1 RAM/RS				E. CONTRACT/PR NO.		F. CONTRACTOR MCLC			
1. DATA ITEM NO. A008		2. TITLE OF DATA ITEM CONFERENCE MINUTES				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-81250			5. CONTRACT REFERENCE PHASE II SOW Para 3.2			6. REQUIRING OFFICE MARCORSYSCOM PM AAVS			
7. DD25REQ		9. DIST STATEMENT REQUIRED		10. FREQUENCY AS REQUIRED		12. DATE OF FIRST SUBMISSION SEE BLK 16			
				11. AS OF DATE SEE BLK 16		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16			
8. APPCODE						14. DISTRIBUTION			
16. REMARKS BLK 11 through 13 – Within 10 working days following meeting. BLK 14 – One copy to each attendee. * All deliverables/reports shall be in a Microsoft Office Application. MCLC shall submit documents in electronic (floppy disk) and hard copy (paper) formats. DISTRIBUTION STATEMENT A: Approved for public release. Distribution is unlimited.						a. Addressee	b. COPIES		
							Draft	Reg	Repr
						MAR			
						CORSYS			
						COM			
						PM AAV	1	1	1
						DCMA	1	1	1
						*Copy to			
						each			
						Attendee	0	1	1
						15. TOTAL	2	3	3
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE			

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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)				Form Approved OMB No 0704-0188			
The public reporting burden for this collection of Information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. listed in Block E.							
A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>X</u>			
D. SYSTEM/ITEM AAV7A1 RAM/RS				E. CONTRACT/PR NO.		F. CONTRACTOR MCLC	
1. DATA ITEM NO. A009		2. TITLE OF DATA ITEM ENGINEERING CHANGE PROPOSALS (ECP)				3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80639B			5. CONTRACT REFERENCE PHASE II SOW Para 3.8.5			6. REQUIRING OFFICE MARCORSSYSCOM PM AAVS	
7. DD250REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQUIRED	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APPCODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. Addressee	b. COPIES		
					Draft	Final	Reg
16. REMARKS BLK 4 – MIL-HDBK-61 may be used for guidance. BLK 12 – ECPs shall be submitted for all changes that affect Government established baselines. The opportunity to submit ECPs shall extend through Phase II finalization. In addition, ECPs shall be submitted at the request of the Government. * All deliverables/reports shall be submitted in a Microsoft Office Application. MCLC shall submit documents in electronic (floppy disk) and hard copy (paper) formats. DISTRIBUTION STATEMENT A: Approved for public release. Distribution is unlimited.				MAR COR SYSCOM			
				PM AAVS	0	1	1
				DCMA	1	1	1
15. TOTAL				1	2	2	
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE	

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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)				Form Approved OMB No 0704-0188				
The public reporting burden for this collection of Information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. listed in Block E.								
A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP_____ TM_____ OTHER <u>X</u>				
D. SYSTEM/ITEM AAV7A1 RAM/RS				E. CONTRACT/PR NO.		F. CONTRACTOR MCLC		
1. DATA ITEM NO. A010		2. TITLE OF DATA ITEM REQUEST FOR DEVIATION				3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640B				5. CONTRACT REFERENCE PHASE II SOW Para 3.8.5		6. REQUIRING OFFICE MARCORSYSCOM PM AAVS		
7. DD250REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQUIRED	12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APPCODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. Addressee	b. COPIES		
						Final		
						Draft	Reg	
							Repr	
16. REMARKS BLK 4 – MIL-HDBK-61 may be used as guidance. BLK 12 – Deviations shall be submitted for all changes that affect Government established baselines. The opportunity to submit deviations shall extend through Phase II finalization. In addition, deviations shall be submitted at the request of the Government. * All deliverables/reports shall be submitted in a Microsoft Office Application. MCLC shall submit documents in electronic (floppy disk) and hard copy (paper) formats. DISTRIBUTION STATEMENT A: Approved for public release. Distribution is unlimited.					MAR CORSYS COM			
					PM AAVS	0	1	1
					DCMA	1	1	1
15. TOTAL					1	2	2	
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE		

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DD FORM 1423-1 AUG 96 (EG)

PREVIOUS EDITION MAY BE USED

APPENDIX C: QUARTERLY PRODUCTION SCHEDULE

Year	2004				2005				2006				Total
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	
Inducted													
MCA-P			8	16	33	40	50	54	46	47	0	0	294
MCA-C			5	6	7	9							27
MCA-R			3	3	3	3							12
Delivered													
MCA-P					6	9	34	41	47	45	57	55	294
MCA-C					5	6	7	9					27
MCA-R					3	3	3	3					12

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APPENDIX D: CWBS COMPONENTS	
WBS	WBS Description
1	AAV FOV
1.01	Assault Amphibious Vehicle Personnel Variant AAVP7A1 (Qty 294)
1.01.01	Hull and Frame
1.01.01.01	Hatches and Ramp
1.01.01.02	Miscellaneous Hull Components
1.01.01.03	Plenum
1.01.01.04	Hull
1.01.02	Suspension and Steering
1.01.02.01	Water Propulsion System
1.01.02.02	Brake System and Steering
1.01.02.03	Suspension
1.01.02.04	Final Drive
1.01.03	Power Package
1.01.03.01	Engine PPA Integration
1.01.03.02	Transmission
1.01.03.03	Cooling System
1.01.03.04	Air Induction System
1.01.03.05	Controls and Linkages
1.01.04	Auxiliary Automotive
1.01.04.01	Fire Suppression
1.01.04.02	Electrical System
1.01.04.03	Ventilation System
1.01.04.04	Hydraulic System
1.01.04.05	Crew Accommodations
1.01.04.06	Fuel System
1.01.05	Turret
1.01.05.01	Communication and Electrical
1.01.05.02	Periscope
1.01.05.03	Miscellaneous Turret Components
1.01.06	Navigation and Communication
1.01.06.01	Navigation System
1.01.06.02	PLRS
1.01.06.03	Communications
1.01.07	Vehicle Disassembly
1.01.08	Vehicle Assembly, Integration, and Inspection
1.01.09	Vehicle Test
1.02	Miscellaneous Material
1.02.01	Paint
1.02.02	Line Side Stock
1.02.03	Hazardous Material
1.02.04	Fabricated Parts
1.03	System Engineering and Program Management
1.03.01	Industrial Engineering
1.03.02	Production Management
1.03.03	Configuration Management
1.03.04	Program Management
1.04	Vendor Processing
1.05	Facilities
1.06	Spares
1.07	GFM Repair
1.07.01	Hull
1.07.02	Suspension
1.07.03	Engine

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1.07.04	PPA Integration
1.07.05	Transmission
1.07.06	XB/Make From
1.08	Assault Amphibious Vehicle Command Variant AAVC7A1 (Qty 27)
1.08.01	Hull and Frame
1.08.01.01	Hatches and Ramp
1.08.01.02	Miscellaneous Hull Components
1.08.01.03	Plenum
1.08.01.04	Hull
1.08.02	Suspension and Steering
1.08.02.01	Water Propulsion System
1.08.02.02	Brake System and Steering
1.08.02.03	Suspension
1.08.02.04	Final Drive
1.08.03	Power Package
1.08.03.01	Engine PPA Integration
1.08.03.02	Transmission
1.08.03.03	Cooling System
1.08.03.04	Air Induction System
1.08.03.05	Controls and Linkages
1.08.04	Auxiliary Automotive
1.08.04.01	Fire Suppression
1.08.04.02	Electrical System
1.08.04.03	Ventilation System
1.08.04.04	Hydraulic System
1.08.04.05	Crew Accommodations
1.08.04.06	Fuel System
1.08.05	Turret (N/A in this variant)
1.08.06	Navigation and Communication
1.08.06.01	Navigation System
1.08.06.02	PLRS
1.08.06.03	Communications
1.08.07	Vehicle Disassembly
1.08.08	Vehicle Assembly, Integration, and Inspection
1.08.09	Vehicle Test
1.09	Assault Amphibious Vehicle Recovery Variant AAVR7A1 (Qty 12)
1.09.01	Hull and Frame
1.09.01.01	Hatches and Ramp
1.09.01.02	Miscellaneous Hull Components
1.09.01.03	Plenum
1.09.01.04	Hull
1.09.02	Suspension and Steering
1.09.02.01	Water Propulsion System
1.09.02.02	Brake System and Steering
1.09.02.03	Suspension
1.09.02.04	Final Drive
1.09.03	Power Package
1.09.03.01	Engine PPA Integration
1.09.03.02	Transmission
1.09.03.03	Cooling System
1.09.03.04	Air Induction System
1.09.03.05	Controls and Linkages
1.09.04	Auxiliary Automotive
1.09.04.01	Fire Suppression
1.09.04.02	Electrical System

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1.09.04.03	Ventilation System
1.09.04.04	Hydraulic System
1.09.04.05	Crew Accommodations
1.09.04.06	Fuel System
1.09.04.07	Crane Assembly
1.09.04.08	Recovery Winch
1.09.04.09	Air Compressor Assembly
1.09.04.10	Welder
1.09.05	Turret (N/A in this variant)
1.09.06	Navigation and Communication
1.09.06.01	Navigation System
1.09.06.02	PLRS
1.09.06.03	Communications
1.09.07	Vehicle Disassembly
1.09.08	Vehicle Assembly, Integration, and Inspection
1.09.09	Vehicle Test

APPENDIX E: RAM/RS APPLICABLE NEW ECPs

AAV7A1 RAM/RS ECPs Common With P7, C7, R7		
Monthly Cost Report Req'd	ECP NO.	TITLE
	5217	Fan Pulley Bearing
	5220	IRAM Transmission
	5344	Final Drive Seal
	5347	TACNAV Lite
	5347r1	TACNAV
	5349	Pamphlet Box Mount Holes
	5356	Conversion Coating
	5357	Driver Compartment Fire Extinguisher
	5359	Delete CBR System
	5361	Adhesive
	5362	Adhesive & Installation Pad
	5390	Driver's and Commander's hatch
	5391	Transmission Gasket Material Change
	5394	Fuel Hose Material Change
	5403	HSU Parts Change
	5405	Paint Callout Change Drive Shaft
	5406	Temperature Transducer Change
	5413r2	Oil Cover Spot Face
	5415	Transmission Filter Bracket Change
	5416	EPLRS
	5418	Rifle Rack Spacer
	5420	Paint Spec Change
	5426	Horn
	5441	Instrument Panel Light
	5449	Fuel System Improvements
	5457	Gasket Transmission
	5468	DVE
	5466	RAM/RS RFDs
	5470	Transmission Snap Ring
	5493	Ramp Hinge
	5496	EPLRS cover
	5512	Cargo door hinges and latch

ECPs Affecting 'P' RAM Only		
Monthly Cost Report Req'd	ECP NO.	TITLE
	5310R1	PLGR 'P'
	5316	Sensitive Switch, UGWS
	5358	Delete NBC System, Turret
	5404	UGWS Alternate Seat Belt
	5459	DACT-P
	AV92227	.50 Caliber Cradle Charger
	AV9223r1	Turret hatch Notch Bracket

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ECPs Affecting 'C' RAM Only		
Monthly Cost Report Req'd	ECP NO.	TITLE
	5354R1	PLGR 'C'
	5360	APU Removal
	5448	MSQ 115 FAN
	5477	DACT-C

ECPs Affecting 'R' RAM Only		
Monthly Cost Report Req'd	ECP NO.	TITLE
	5350	Compressor Starter Switch
	5355	PLGR 'R'
	5360	APU Removal
	5454	Magnetic Clutch
	5460	New R7 Welder
	5460R1	New R7 Welder
	5464	Replace magnetic contactors
	5465	New Air compressor
	5469	New R7 Generator

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APPENDIX F: ECPs INSTALLED PRIOR TO RAM/RS CHECKLIST

ECP	Nomenclature
E02124-R1	AFSSS BRACKET AND SENSOR (P7A1)
E02124-R1/E05143	AFSSS AFT ENG COMPT BRACKETS & B
E05000-C3	TROOP CMDR'S M16A2 RIFLE STOWAGE
E05007	IMPROVED COMM SYSTEM (P7A1)
E05020	PLRS, RT, POWER UNIT AND COVER
E05050&E05198	UGWS-FILL BRASS LINK SWP BLT HOLES
E05209	EAAK BOSSES (P7A1)

APPENDIX G: COMPONENT DISPOSITION

<u>CATEGORY</u>	<u>NOMENCLATURE</u>	<u>DISPOSITION</u>
Excess to Program	400 HP engine	Normal MCLC Process
	Suspension	
	Class IX common	
	Support Arms	
	Torque Converters	
	CBR	
	NBC	
Trade-in Items	MHS	Requires secure storage by MCLC until delivered to vendor.
GFM	Hull (see Note below)	Provide to Hull Contractor
	Howden Fan	Provide to Howden
R7 Components		See paragraph 3.5.3.2.1
Phase II RAM/RS required parts		Inspection and Storage IAW this SOW
Note: The following items are to remain on the hulls: SHACKLES (4) MOORING CLEATS (4) FORWARD TOWING EYES (2)		

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APPENDIX H: ANNUAL GFM BUY LIST

PN	NOTE	DESCRIPTION	REQ 170
Various		Suspension Kits	170
Twin Disc		Shipments as of 6/18/99	
BOM 67190	*	Torque Converter	170
710170A		65 Tooth Gear	170
710203A		62 Tooth Gear	170
206178D		Polygon Plates(16) per set	2720
RONAL		Shipments as of 6/18/99	
2584769-3		Transmission Seal (2 per)	340
2584713-2		Trans. End Cap	170
2584091	Note1	Power Takeoff Hsg	55
2584109	Note1	Speed Change Hsg	60
2587705	Note1	L/S Housing	48
2587706	Note1	R/S Housing	62
Unique Parts			
7001300-1,2,3,4		Torsion Bars (x 3 of ea type)	521 of ea
7010139		Spacer	170
7001180		Bilge Piping	170
7001181		Bilge Piping	170
7001170		Spacer	170
7001171		Spacer	170
7001167		Final Drive shaft	340
7001179		Bilge Piping	170
Donaldson			
7010001		Pre Cleaner	170
7010002		Muffler (Hi Tech)	170
P53-5323		Element	170
P22-0458		Clamp (2 per set)	340
P22-0015		Clamp	170
P22-0459		Clamp	170
7010127		Bellows	170
P27-0543		Exhaust Cap	170
PPA Parts			
7010054		U-Joint	340
7010055		Yoke, Input	340
7010056		Yoke, Output	340
7010033		Bracket Smoke	170
7010019		Bracket, Lube	170
7010016		Bracket, Fuel	170
7010013		Bracket, Drain	170
7010007		Support, Tube (170 on P.O.)	340
7010083		Smoke, Line	170
7010003		Tube, Assy	170
7010004		Tube Assy	170
7010005		Tube Assy	170
7010006		Tube Assy	170
7010018		Tube Assy	170
7010032		Tube Assy	170
7010066		Tube Assy	170

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PN	NOTE	DESCRIPTION	REQ 170
7010082		Tube Assy	170
7010144		Tube Assy	170
7010145		Tube Assy	170
7010015		Gasket, Hull	170
7010010		Guard, Muffler	170
7010017		Bracket, Manifold	170
7010154		Cable	170
7010011		Tube Assy (Hi Tech)	170
7010008		Tube Assy	170
Ins./701002		Insulation only	170
Ins./701008		Insulation only	170
Ins./7010011		Insulation only	170
Add-ons			
7010230	Note 2	Hose (4" pieces)	170
7010229	Note 3	Clamp	170
7010177	Note 4	Bellows Cover	170
2584559-1		HOWDEN fan (rotation req)	170
7010160	Note 5	Final Drive seals	340
CUMMINS			
903-525P00S0		ENGINE 525 HP	170

Note 1: Not 100% replacement
Note 2: P/N 52400-556-01 Hose (12ft length cut to 4" pieces).
Note 3: Final P/N = NE102665-0258AM
Note 4: Not essential for production.
Note 5: Use old design seat pending delivery of new seat.

APPENDIX I: AAVC7A1 MANDATORY REPLACEMENT PARTS

DESCRIPTION	NSN	CAGE CODE	PART NUMBER	QTY / VEH	UNIT PRICE / VEH *	EXT PRICE / VEH (estimate)
COMMUNICATION MODULE MOUNTING HARDWARE						6.42
Nut, self-locking	5310-00-088-1251	96906	MS51922-1	22	0.02	0.44
Nut, self-locking	5310-00-929-1807	96906	MS51922-2	2	0.03	0.06
Bolt, self-locking	5306-00-162-6056	80064	2585163-7	20	0.11	2.20
Pin, cotter	5315-00-842-3044	96906	MS24665-283	6	0.07	0.42
Nut, self-locking	5310-00-087-4652	96906	MS51922-17	2	0.04	0.08
Screw	5305-00-964-0562	96906	MS51095-369	2	0.28	0.56
Screw	5305-00-093-6741	96906	MS16997-62L	2	1.23	2.46
Washer, lock	5310-00-550-1130	96906	MS35333-40	4	0.01	0.04
Washer, lock	5310-00-550-3715	96906	MS35333-70	16	0.01	0.16
COMMUNICATION MODULE CABLES						17.21
Bolt, self-locking	5306-01-072-2149	80064	2585163-9	4	0.75	3.00
Screw, self-locking	5305-00-152-6387	80064	2585164-264	34	0.06	2.04
Screw, self-locking	5305-01-105-8756	80064	2585164-260	30	0.4	12.00
Nut, self-locking	5310-00-208-9255	96906	MS21044C3	1	0.17	0.17
STAFF MODULE FROM VEHICLE						5.23
Pin, cotter	5315-00-842-3044	96906	MS24665-283	4	0.07	0.28
Screw, self-locking	5305-00-155-5329	80064	2585164-263	7	0.33	2.31
Screw, self-locking	5305-00-152-6384	80064	2585164-261	3	0.06	0.18
Screw, self-locking	5306-00-008-6084	96906	2585163-110	1	0.94	0.94
Washer, lock	5310-00-935-8984	96906	MS45904-84	4	0.2	0.80
Nut, self-locking	5310-00-225-6993	96906	MS51922-33	4	0.11	0.44
Screw, self-locking	5305-00-170-3778	80064	2585164-280	1	0.28	0.28

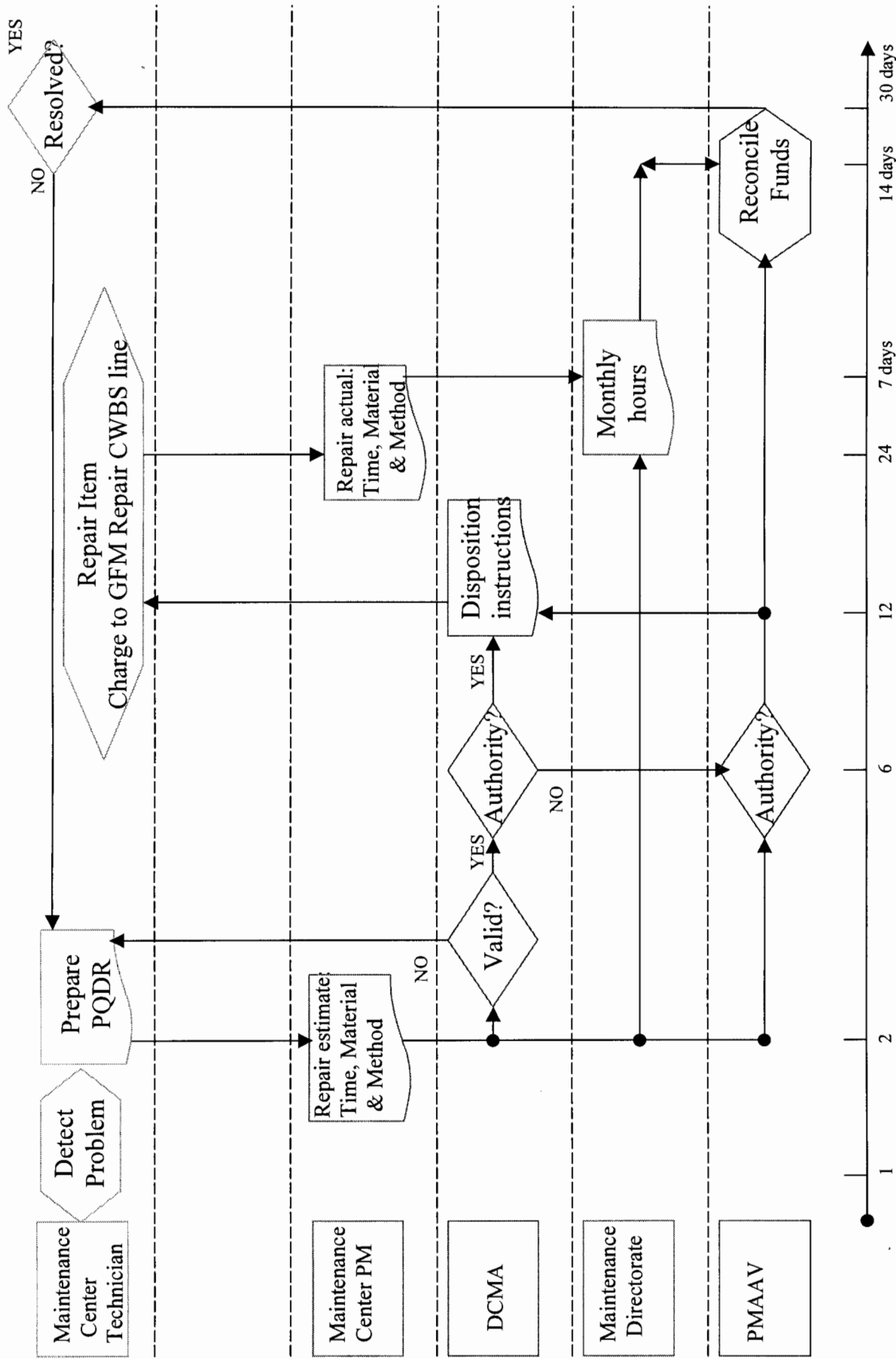
APPENDIX J: GFM REPAIR RESPONSIBILITIES, PROCESS, AND WORKSHEET

GFM REPAIR RESPONSIBILITIES MATRIX

MC Process	DCMA Process	MD Process	PMAAV Process
1. Detect Problem. Notify MC project manager's office, MC Quality Assurance, and DCMA of GFM problem (verbal acceptable).	1. Receive notification of problem (verbal).		
2. Estimate Time, Cost and Method to repair.			
3. Provide written problem notification and GFM repair authorization request with estimate of method and time to repair to DCMA and MD. PQDR form may be used.	2. Receive written problem notification from MC with estimate method and time to repair.	1. Receive written problem notification from MC with estimate method and time to repair.	1. Receive written problem notification (DCMA could not resolve) from DCMA with estimate method and time to repair.
	3. Verify problem. Determine problem within delegated authority. If within authority determine disposition. Consult with UDLP PMAAV Reps and MCPM, if necessary. If not within authority delegated then forward request to PMAAV for resolution.		
4. Receive written disposition instructions.	4. Provide written disposition instructions with authorization to charge to GFM repair line to MC with copy to MD and PMAAV.		2. Provide written disposition instructions to DCMA, when necessary.
5. Process material according to instructions on a not to exceed basis. Charge approved repairs to the GFM Repair CWBS line as authorized.			
6. Provide written report of actual time to repair to DCMA and MD.	5. Receive report of actual repair time and forward to MD.	2. Report hours monthly to PMAAV.	3. Review MD monthly report of actual hours expended.
7. Problem resolved.		3. Reconcile hours quarterly with PMAAV	4. Reconcile hours quarterly with MD.
8. Retain copies of problem notifications and disposition instructions for future reference.	6. Retain copies of problem notifications and disposition instructions for future reference	4. Retain copies of problem notifications and disposition instructions for future reference	5. Retain copies of problem notifications and disposition instructions for future reference

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GFM Repair Authorization



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[illegible]